

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332501-940

Luminaire Tested: **S124DIP-S350D590U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332501-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S350D590U940-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3290.1 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

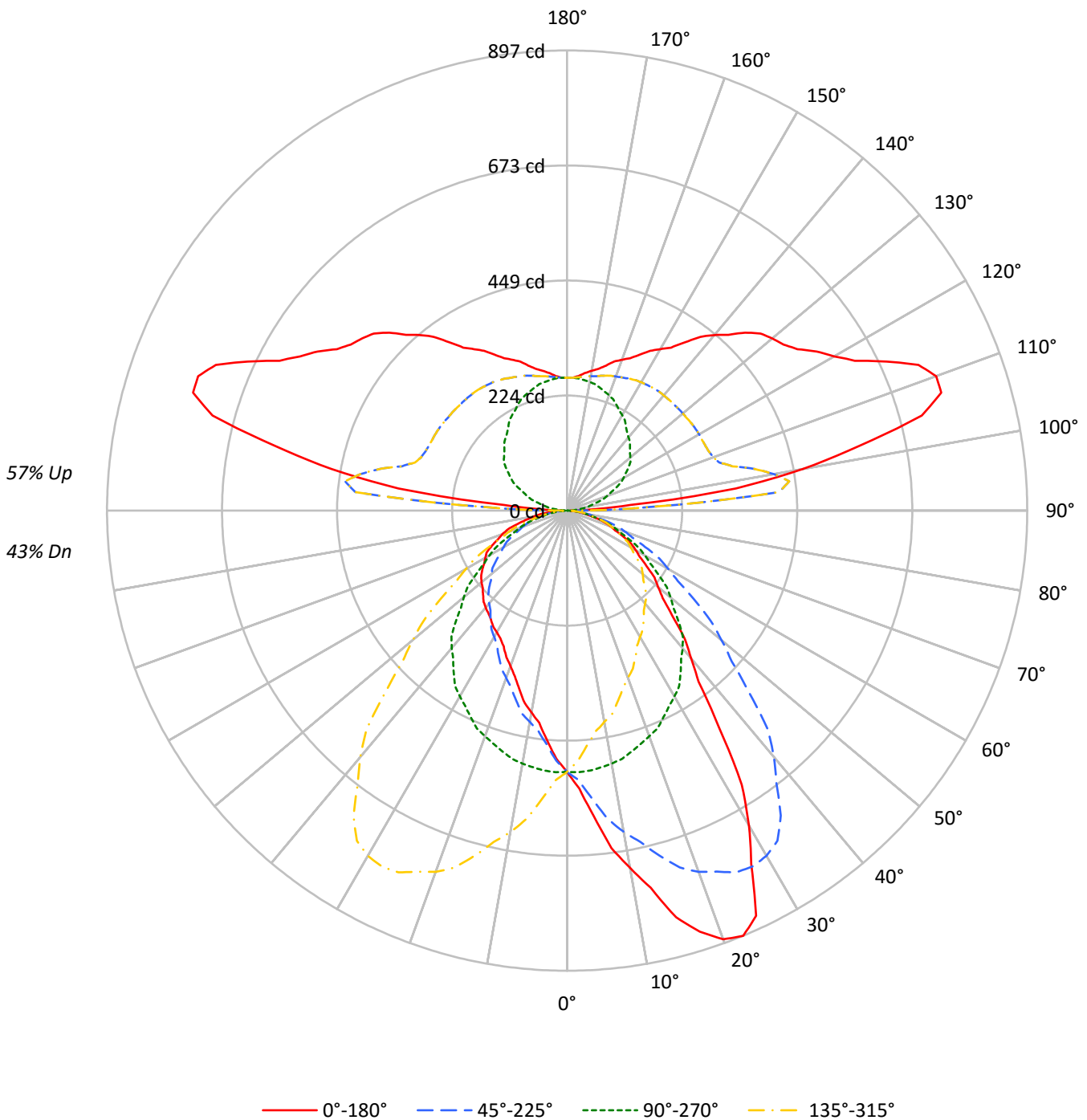
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43					43			
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36					36			
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31					31			
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26					26			
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23					23			
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20					20			
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18					18			
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16					16			
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14					14			
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13					13			
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	11					11			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4112	4112	4112	4112
5°	4843	4123	3639	4123
10°	5799	4105	3277	4105
15°	6861	4064	3010	4064
20°	7640	4021	2770	4021
25°	7764	3958	2605	3958
30°	6605	3899	2553	3899
35°	5078	3802	2553	3802
40°	3959	3687	2602	3687
45°	3301	3515	2646	3515
50°	2905	3304	2735	3304
55°	2662	3054	2846	3054
60°	2493	2827	2977	2827
65°	2321	2575	3089	2575
70°	2122	2325	3158	2325
75°	1896	2046	3119	2046
80°	1590	1678	3022	1678
85°	1176	1213	2890	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.5
10°-20°	153.0	4.6
20°-30°	242.6	7.4
30°-40°	270.0	8.2
40°-50°	245.7	7.5
50°-60°	200.8	6.1
60°-70°	143.4	4.4
70°-80°	78.9	2.4
80°-90°	23.0	0.7
90°-100°	187.0	5.7
100°-110°	389.2	11.8
110°-120°	348.6	10.6
120°-130°	293.2	8.9
130°-140°	244.5	7.4
140°-150°	186.8	5.7
150°-160°	131.3	4.0
160°-170°	77.2	2.3
170°-180°	25.1	0.8
0°-30°	445.2	13.5
0°-40°	715.2	21.7
0°-60°	1161.7	35.3
0°-90°	1407.0	42.8
90°-120°	924.8	28.1
90°-150°	1649.4	50.1
90°-180°	1883.0	57.2
0°-180°	3290.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	598	509	449	509	598	61
15°	821	486	360	486	821	232
25°	872	444	292	444	872	384
35°	515	386	259	386	515	327
45°	289	308	232	308	289	228
55°	189	217	202	217	189	171
65°	122	135	162	135	122	120
75°	61	66	100	66	61	65
85°	13	13	31	13	13	16
90°	11	0	11	0	11	9
95°	124	17	124	17	124	193
105°	716	60	716	60	716	708
115°	687	105	687	105	687	682
125°	548	146	548	146	548	498
135°	490	173	490	173	490	379
145°	400	200	400	200	400	254
155°	335	227	335	227	335	156
165°	292	248	292	248	292	84
175°	264	258	264	258	264	26
180°	259	259	259	259	259	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	542.2	542.1	540.4	540.0	538.9	537.3	537.0	534.2	528.9	526.3	525.7
5°	597.6	601.9	596.4	595.3	594.7	587.7	584.2	580.0	570.2	564.5	560.1
7.5°	663.9	664.3	661.9	660.0	654.6	648.5	639.4	629.7	618.1	606.2	597.1
10°	707.4	709.1	706.3	706.0	695.2	688.4	674.9	663.5	650.4	635.9	622.6
12.5°	753.3	751.0	749.6	740.6	738.5	726.2	710.5	698.8	678.6	661.8	644.2
15°	820.9	816.3	813.3	800.9	794.8	777.7	761.0	748.1	721.8	696.6	677.6
17.5°	860.6	865.2	858.4	853.3	837.5	825.5	808.4	781.4	760.8	729.6	705.6
20°	889.3	889.7	885.9	880.7	868.3	853.0	834.5	804.9	780.2	749.2	716.2
22.5°	897.1	897.2	895.5	890.6	881.2	868.9	850.2	825.5	795.6	761.9	728.9
25°	871.6	870.8	872.6	878.2	874.6	870.8	860.0	841.6	813.8	778.1	742.6
27.5°	776.9	782.7	793.4	806.9	819.9	829.8	832.6	828.8	811.6	782.3	745.1
30°	708.6	715.9	723.9	737.4	763.6	778.6	795.0	807.4	800.5	777.0	742.4
32.5°	633.7	635.5	647.4	662.7	686.7	715.5	741.6	767.0	775.3	763.0	734.1
35°	515.3	518.4	531.2	546.4	575.7	611.0	650.2	685.3	714.2	725.8	711.0
37.5°	420.5	429.0	438.1	454.4	480.3	512.0	552.8	598.2	641.2	670.1	675.0
40°	375.7	380.9	387.4	399.9	421.9	453.1	488.1	540.0	585.9	627.2	640.7
42.5°	340.2	343.3	347.3	358.6	375.2	406.4	438.4	484.0	529.9	579.4	602.1
45°	289.1	292.3	299.1	305.6	318.3	339.7	369.5	407.1	453.3	501.0	542.8
47.5°	252.3	254.2	258.2	265.3	276.1	290.3	314.4	345.8	388.6	435.0	479.5
50°	231.3	233.0	236.1	242.5	250.7	263.4	283.2	312.5	346.1	392.7	436.4
52.5°	214.7	215.4	217.8	222.0	228.6	239.2	255.6	279.8	311.0	352.6	396.1
55°	189.1	189.9	192.1	195.2	200.9	207.7	220.1	238.3	265.5	301.6	339.4
57.5°	168.0	168.6	170.3	171.6	176.3	181.7	191.4	204.3	224.9	255.6	289.3
60°	154.4	154.1	156.1	157.2	160.4	165.1	172.5	184.9	202.8	227.5	258.5
62.5°	141.3	140.7	142.5	143.9	145.7	149.6	155.7	165.4	180.0	202.3	229.2
65°	121.5	120.7	121.8	123.5	125.1	127.2	131.7	140.4	151.9	168.0	188.4
67.5°	101.7	102.6	102.8	103.6	104.6	107.5	110.5	116.6	124.8	137.7	155.0
70°	89.9	90.2	91.0	91.0	91.6	94.2	96.7	100.2	108.3	120.1	134.2
72.5°	78.1	79.0	78.6	79.3	79.8	81.5	83.3	86.8	93.5	102.4	114.3
75°	60.8	61.4	61.4	61.6	62.2	62.9	64.4	66.9	71.8	78.3	86.5
77.5°	44.3	44.4	44.7	45.5	45.5	46.5	47.5	49.6	52.0	56.4	61.5
80°	34.2	34.6	34.4	34.9	34.9	35.7	36.1	38.6	39.7	42.6	46.6
82.5°	25.1	25.5	25.4	26.0	26.4	26.6	27.1	28.2	29.2	31.8	33.4
85°	12.7	13.1	12.7	13.1	13.7	13.9	14.5	14.8	15.6	16.2	17.7
87.5°	5.9	6.3	6.4	6.5	6.8	7.0	7.0	6.7	7.3	7.6	8.0
90°	10.7	10.7	11.1	10.7	10.2	10.2	9.6	9.2	8.6	9.2	8.1
92.5°	39.1	39.1	40.9	43.6	49.7	59.8	75.2	99.9	134.4	161.3	141.2
95°	124.1	130.7	139.9	155.7	180.6	229.9	298.1	376.9	426.2	414.6	312.8
97.5°	331.7	342.3	357.6	388.3	424.7	477.9	527.6	556.9	535.6	436.7	292.8
100°	466.5	470.6	485.8	516.8	561.1	598.7	623.7	613.5	539.2	408.9	265.6
102.5°	583.6	586.9	603.0	625.4	652.6	668.3	661.1	610.6	508.6	374.4	247.2
105°	715.7	718.7	725.9	730.0	729.0	708.1	657.7	569.7	453.3	333.7	231.5
107.5°	764.7	763.4	758.3	746.7	721.6	676.3	605.3	511.7	408.5	310.9	228.6
110°	765.5	761.0	751.8	730.5	694.4	638.4	564.6	476.6	386.1	303.2	229.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	741.5	734.1	721.3	695.4	654.4	598.5	528.8	451.0	373.4	299.5	231.8
115°	687.2	683.1	666.9	636.3	596.2	547.3	487.9	425.3	361.7	297.6	236.6
117.5°	632.2	629.0	612.5	586.9	552.6	511.2	464.4	412.6	356.4	297.0	241.5
120°	601.3	595.7	582.5	560.1	531.0	494.9	454.2	407.0	353.6	297.0	245.2
122.5°	576.8	571.2	560.1	540.9	516.4	484.7	447.7	402.1	350.3	296.7	248.9
125°	548.3	545.3	535.7	520.8	500.5	472.5	437.5	393.7	344.9	296.0	254.3
127.5°	531.6	528.6	520.5	507.4	486.9	460.4	425.3	383.5	337.7	294.9	258.7
130°	521.9	518.9	510.7	498.0	477.2	450.1	415.6	375.4	333.1	294.5	262.0
132.5°	511.0	507.8	500.2	485.8	465.3	438.4	404.6	366.8	329.1	294.1	264.8
135°	490.4	487.3	479.2	464.9	444.6	419.1	388.2	355.1	323.0	293.5	269.1
137.5°	464.9	461.3	454.6	440.5	421.5	398.5	372.4	344.4	317.7	293.4	271.6
140°	446.7	442.6	435.4	424.3	406.4	385.0	362.2	338.2	314.9	293.0	273.7
142.5°	427.0	424.3	417.9	407.5	391.8	373.3	353.7	332.6	312.5	293.0	275.3
145°	400.3	397.8	392.7	384.1	371.3	357.1	341.8	324.5	308.3	291.9	276.3
147.5°	376.7	375.7	371.8	364.4	355.1	343.8	331.6	317.9	304.5	290.2	276.7
150°	363.2	362.7	359.6	353.0	344.9	335.7	325.6	313.9	301.7	288.9	276.7
152.5°	351.0	350.4	348.7	343.2	336.4	328.8	319.4	309.3	298.4	286.9	275.9
155°	335.2	335.2	333.7	329.7	324.5	318.4	310.8	302.6	293.5	283.8	274.6
157.5°	321.4	321.4	320.5	317.4	313.5	308.6	302.3	295.4	288.6	280.7	273.4
160°	312.8	312.8	312.4	309.2	306.2	302.1	296.6	291.0	284.9	278.2	272.2
162.5°	304.7	305.1	304.6	301.6	299.3	295.6	291.2	286.5	281.6	275.8	270.9
165°	292.5	293.0	293.5	291.5	289.4	286.9	283.3	280.3	276.3	272.2	268.6
167.5°	282.9	283.2	283.3	282.0	281.0	279.5	276.6	274.3	271.3	268.5	266.2
170°	276.7	276.7	277.2	276.7	275.7	274.2	272.2	270.6	268.0	266.0	264.5
172.5°	270.6	271.4	272.0	271.4	270.8	269.7	268.5	267.3	265.2	263.6	262.9
175°	263.5	264.5	265.6	264.5	264.5	264.5	263.5	263.0	262.0	260.9	260.9
177.5°	259.3	260.1	260.9	260.6	260.9	260.6	260.6	260.1	259.8	259.3	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	525.8	523.4	521.7	520.4	516.7	514.5	512.8	510.5	507.7	504.9	501.3
5°	555.6	548.5	543.2	535.2	527.6	521.3	514.7	508.8	501.7	493.8	488.1
7.5°	587.0	576.3	562.7	550.8	537.4	525.8	515.5	504.9	493.8	483.0	473.2
10°	607.0	593.3	578.0	560.1	543.2	528.2	514.3	500.8	487.7	474.7	463.4
12.5°	628.4	611.3	588.8	567.8	548.9	528.9	512.1	495.5	479.7	466.0	453.0
15°	657.2	632.5	606.5	578.5	553.6	530.1	507.1	486.2	468.5	450.3	437.7
17.5°	674.8	644.3	614.7	585.3	555.2	525.6	500.8	476.7	454.5	436.5	420.5
20°	686.5	656.1	619.2	589.9	554.0	523.6	494.9	468.1	444.9	425.7	409.2
22.5°	696.6	661.6	624.6	585.9	550.3	518.0	486.6	459.7	436.0	415.7	399.9
25°	702.1	661.8	621.7	583.3	542.8	504.6	476.1	444.4	419.1	397.8	380.9
27.5°	702.8	659.6	614.2	571.6	529.8	494.2	458.3	429.9	403.7	381.1	364.9
30°	700.9	655.9	607.2	561.0	519.0	480.4	449.1	418.3	391.5	369.1	352.2
32.5°	694.9	648.2	598.1	549.1	505.6	467.8	435.6	406.3	380.1	358.1	340.4
35°	677.9	631.6	578.3	527.4	482.9	444.7	415.5	385.8	359.6	338.8	321.6
37.5°	651.1	609.4	555.1	502.5	458.7	420.4	391.5	364.6	341.0	319.8	302.3
40°	627.9	591.1	536.6	485.4	438.1	401.6	374.6	349.9	326.5	306.4	289.7
42.5°	601.0	569.0	518.8	464.5	418.8	382.2	355.9	333.7	311.7	293.1	276.4
45°	553.1	532.0	484.7	434.5	387.0	352.4	327.3	307.9	289.4	271.2	257.3
47.5°	498.1	487.6	447.8	400.1	355.1	320.9	299.2	281.2	264.9	249.6	237.3
50°	461.1	456.0	421.7	375.7	332.6	300.5	278.6	263.1	249.2	235.8	224.1
52.5°	424.6	424.5	393.4	351.3	311.5	280.6	258.8	244.4	232.4	221.4	211.0
55°	368.9	374.8	350.5	313.0	277.3	249.4	229.8	217.0	208.5	199.5	191.6
57.5°	317.7	327.5	307.5	274.4	244.6	219.0	201.9	192.3	183.2	177.7	172.0
60°	284.3	293.6	277.9	250.1	222.0	200.1	183.8	175.1	167.4	163.5	159.5
62.5°	254.6	262.8	251.3	225.4	201.1	179.9	166.2	157.9	152.7	148.6	145.9
65°	212.1	219.1	209.1	190.4	169.4	152.6	141.4	134.8	129.8	128.1	125.1
67.5°	171.5	177.8	172.5	156.5	139.7	126.9	118.2	111.9	108.9	107.5	105.3
70°	147.3	153.6	147.9	134.0	121.1	110.4	102.1	98.5	95.4	94.8	91.8
72.5°	126.9	131.2	125.5	114.6	103.6	94.5	88.1	84.4	82.8	81.6	80.0
75°	95.1	99.0	95.1	86.8	78.9	72.6	67.1	65.6	63.8	63.1	62.1
77.5°	67.3	70.6	67.8	62.5	56.6	51.7	48.8	46.9	46.5	45.4	45.9
80°	51.5	53.6	50.8	47.3	42.6	39.2	37.2	36.1	34.9	34.4	35.2
82.5°	37.0	37.9	36.5	34.1	30.7	28.4	27.0	25.8	25.5	25.6	25.6
85°	19.2	19.0	18.8	16.7	15.6	14.2	13.3	13.1	12.8	13.3	13.7
87.5°	7.8	8.0	7.2	6.6	6.0	5.4	4.9	4.5	4.9	5.4	5.6
90°	7.1	7.1	4.1	4.1	3.6	3.0	1.5	0.5	1.5	3.0	3.6
92.5°	102.7	63.3	37.5	26.8	19.4	13.2	8.5	5.8	8.5	13.2	19.4
95°	191.3	107.8	63.6	42.2	30.1	23.4	18.3	16.8	18.3	23.4	30.1
97.5°	171.9	103.1	69.0	51.1	40.6	34.5	30.1	30.1	30.1	34.5	40.6
100°	161.8	104.2	74.3	58.0	48.3	42.2	38.7	38.7	38.7	42.2	48.3
102.5°	158.9	108.3	81.1	65.7	56.4	50.7	47.6	46.8	47.6	50.7	56.4
105°	160.2	118.0	93.6	78.8	69.7	63.6	61.1	59.5	61.1	63.6	69.7
107.5°	167.7	129.3	106.9	92.4	83.6	77.1	74.5	73.6	74.5	77.1	83.6
110°	173.4	137.9	115.5	101.7	92.6	86.5	83.9	82.9	83.9	86.5	92.6





TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	179.6	146.0	124.4	110.7	101.6	95.9	92.9	91.8	92.9	95.9	101.6
115°	189.2	158.7	138.4	124.7	114.9	109.9	106.3	104.8	106.3	109.9	114.9
117.5°	199.1	171.0	151.7	137.4	128.4	122.8	119.7	118.2	119.7	122.8	128.4
120°	206.0	179.6	160.2	146.0	137.3	131.7	128.2	127.2	128.2	131.7	137.3
122.5°	212.5	187.7	168.4	154.5	145.1	139.9	136.3	135.3	136.3	139.9	145.1
125°	222.3	198.9	180.6	166.3	156.7	151.1	148.0	146.0	148.0	151.1	156.7
127.5°	230.8	209.3	191.5	177.2	167.1	160.8	157.1	155.4	157.1	160.8	167.1
130°	236.0	216.2	198.9	184.1	174.5	166.8	162.7	160.8	162.7	166.8	174.5
132.5°	241.3	221.9	204.6	190.6	180.2	173.0	167.6	166.0	167.6	173.0	180.2
135°	248.3	229.9	213.1	199.9	189.2	180.6	175.5	173.4	175.5	180.6	189.2
137.5°	253.2	236.0	220.3	207.8	196.6	188.4	182.8	180.9	182.8	188.4	196.6
140°	256.4	240.1	224.8	212.6	202.0	193.3	187.7	186.2	187.7	193.3	202.0
142.5°	258.8	243.8	228.9	217.1	206.8	198.6	193.4	191.9	193.4	198.6	206.8
145°	261.4	247.7	234.5	223.3	213.7	206.5	201.4	199.9	201.4	206.5	213.7
147.5°	263.8	251.8	239.4	229.3	221.2	213.9	209.5	208.9	209.5	213.9	221.2
150°	265.0	253.9	242.6	233.0	225.3	219.3	215.2	214.6	215.2	219.3	225.3
152.5°	265.8	255.5	245.5	236.7	229.8	224.1	220.1	220.0	220.1	224.1	229.8
155°	266.5	257.9	249.2	241.7	236.0	231.0	227.9	227.4	227.9	231.0	236.0
157.5°	266.5	259.7	252.3	246.3	241.4	237.5	234.6	234.6	234.6	237.5	241.4
160°	266.5	260.5	254.3	248.7	244.7	241.1	239.1	239.1	239.1	241.1	244.7
162.5°	266.5	261.3	255.6	251.2	247.5	244.3	242.7	243.2	242.7	244.3	247.5
165°	265.6	261.4	256.9	253.9	251.3	248.7	247.7	247.7	247.7	248.7	251.3
167.5°	264.3	261.4	258.0	255.7	254.2	252.3	251.8	252.3	251.8	252.3	254.2
170°	263.5	260.9	258.4	256.9	255.8	254.3	253.9	254.3	253.9	254.3	255.8
172.5°	262.7	260.6	258.8	257.7	257.1	255.9	255.8	256.4	255.8	255.9	257.1
175°	261.4	259.9	259.0	259.0	258.4	257.9	257.9	258.4	257.9	257.9	258.4
177.5°	260.1	259.3	259.0	259.0	259.0	258.5	259.0	259.3	259.0	258.5	259.0
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	499.6	498.1	496.0	492.9	490.4	487.7	487.0	486.0	488.0	486.3	485.8
5°	483.3	478.8	473.1	466.6	462.8	457.4	456.3	454.1	452.0	451.8	449.7
7.5°	465.9	459.4	451.9	445.3	439.2	433.1	429.2	428.4	425.3	423.4	421.3
10°	454.8	446.7	438.1	431.8	424.6	418.3	413.8	411.3	409.2	406.9	404.7
12.5°	441.7	433.1	426.0	419.1	410.6	405.8	398.5	394.1	393.7	393.7	388.3
15°	426.3	417.9	406.9	397.2	392.5	383.3	379.2	374.2	371.0	367.8	365.3
17.5°	408.8	398.2	389.7	378.5	369.7	362.3	357.0	354.0	349.2	344.7	341.5
20°	397.8	386.6	377.6	365.7	356.1	347.0	342.5	338.3	334.7	330.9	327.3
22.5°	386.6	375.0	363.9	352.4	343.4	333.8	329.5	323.8	320.4	318.3	314.7
25°	369.1	356.4	343.8	332.8	323.5	315.0	309.4	305.0	301.1	299.4	297.1
27.5°	350.0	337.4	325.2	312.7	302.2	296.0	291.5	288.2	286.0	283.7	282.7
30°	337.9	324.8	311.7	300.1	290.4	284.3	280.1	277.8	276.1	275.0	273.9
32.5°	325.6	312.6	298.9	288.3	279.6	274.1	270.9	268.6	267.8	267.4	267.0
35°	305.8	292.7	280.1	270.5	262.3	260.2	257.4	256.2	255.7	257.3	257.9
37.5°	286.7	274.6	262.9	253.7	248.3	245.2	244.2	244.3	245.8	247.1	248.6
40°	274.4	262.5	251.6	243.5	238.4	236.6	236.1	237.2	238.9	240.4	242.1
42.5°	262.3	250.7	240.8	233.3	229.7	227.9	228.2	229.3	231.7	233.4	235.9
45°	243.8	234.1	224.4	218.2	215.3	215.7	215.7	217.6	219.9	222.7	225.4
47.5°	226.2	216.4	208.5	203.3	201.8	201.4	202.6	205.1	208.4	211.8	215.6
50°	214.5	205.1	198.1	193.5	191.8	192.4	194.1	196.4	200.5	204.7	208.7
52.5°	202.4	193.9	187.5	183.2	182.0	183.2	184.9	188.5	192.1	196.6	201.4
55°	183.8	176.6	171.6	168.4	168.0	168.6	170.5	174.5	179.6	185.3	189.9
57.5°	165.3	159.3	154.6	152.5	152.7	153.3	156.4	161.1	166.6	172.6	178.6
60°	152.8	147.3	143.5	141.8	142.0	143.3	147.1	151.5	158.3	164.2	170.5
62.5°	141.0	136.2	132.5	131.0	130.7	133.5	137.1	141.7	148.5	155.1	161.9
65°	122.0	118.2	115.2	114.4	115.0	117.2	121.8	127.9	133.6	140.5	147.8
67.5°	103.4	100.3	98.3	98.6	99.4	102.5	106.4	111.6	118.2	125.4	132.4
70°	91.6	88.6	86.9	87.1	88.5	92.2	95.6	100.9	107.8	115.2	121.1
72.5°	79.5	77.5	76.0	76.9	78.1	80.7	85.0	90.2	96.4	103.3	109.5
75°	61.0	61.0	60.2	60.8	62.7	65.2	68.4	73.8	80.0	85.5	90.5
77.5°	45.2	44.8	45.3	46.1	47.2	50.2	53.9	57.8	62.3	67.9	72.1
80°	34.6	34.9	35.8	37.2	37.5	39.9	43.7	47.3	50.8	55.5	59.5
82.5°	26.0	26.2	26.8	28.4	28.8	31.3	33.7	37.3	40.6	43.7	47.0
85°	14.2	14.2	15.2	15.9	16.9	18.5	20.1	22.2	25.1	27.2	30.4
87.5°	6.2	6.2	7.5	7.8	8.6	9.6	9.8	11.8	12.6	13.6	15.1
90°	4.1	4.1	7.1	7.1	8.1	9.2	8.6	9.2	9.6	10.2	10.2
92.5°	26.8	37.5	63.3	102.7	141.2	161.3	134.4	99.9	75.2	59.8	49.7
95°	42.2	63.6	107.8	191.3	312.8	414.6	426.2	376.9	298.1	229.9	180.6
97.5°	51.1	69.0	103.1	171.9	292.8	436.7	535.6	556.9	527.6	477.9	424.7
100°	58.0	74.3	104.2	161.8	265.6	408.9	539.2	613.5	623.7	598.7	561.1
102.5°	65.7	81.1	108.3	158.9	247.2	374.4	508.6	610.6	661.1	668.3	652.6
105°	78.8	93.6	118.0	160.2	231.5	333.7	453.3	569.7	657.7	708.1	729.0
107.5°	92.4	106.9	129.3	167.7	228.6	310.9	408.5	511.7	605.3	676.3	721.6
110°	101.7	115.5	137.9	173.4	229.4	303.2	386.1	476.6	564.6	638.4	694.4



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	110.7	124.4	146.0	179.6	231.8	299.5	373.4	451.0	528.8	598.5	654.4
115°	124.7	138.4	158.7	189.2	236.6	297.6	361.7	425.3	487.9	547.3	596.2
117.5°	137.4	151.7	171.0	199.1	241.5	297.0	356.4	412.6	464.4	511.2	552.6
120°	146.0	160.2	179.6	206.0	245.2	297.0	353.6	407.0	454.2	494.9	531.0
122.5°	154.5	168.4	187.7	212.5	248.9	296.7	350.3	402.1	447.7	484.7	516.4
125°	166.3	180.6	198.9	222.3	254.3	296.0	344.9	393.7	437.5	472.5	500.5
127.5°	177.2	191.5	209.3	230.8	258.7	294.9	337.7	383.5	425.3	460.4	486.9
130°	184.1	198.9	216.2	236.0	262.0	294.5	333.1	375.4	415.6	450.1	477.2
132.5°	190.6	204.6	221.9	241.3	264.8	294.1	329.1	366.8	404.6	438.4	465.3
135°	199.9	213.1	229.9	248.3	269.1	293.5	323.0	355.1	388.2	419.1	444.6
137.5°	207.8	220.3	236.0	253.2	271.6	293.4	317.7	344.4	372.4	398.5	421.5
140°	212.6	224.8	240.1	256.4	273.7	293.0	314.9	338.2	362.2	385.0	406.4
142.5°	217.1	228.9	243.8	258.8	275.3	293.0	312.5	332.6	353.7	373.3	391.8
145°	223.3	234.5	247.7	261.4	276.3	291.9	308.3	324.5	341.8	357.1	371.3
147.5°	229.3	239.4	251.8	263.8	276.7	290.2	304.5	317.9	331.6	343.8	355.1
150°	233.0	242.6	253.9	265.0	276.7	288.9	301.7	313.9	325.6	335.7	344.9
152.5°	236.7	245.5	255.5	265.8	275.9	286.9	298.4	309.3	319.4	328.8	336.4
155°	241.7	249.2	257.9	266.5	274.6	283.8	293.5	302.6	310.8	318.4	324.5
157.5°	246.3	252.3	259.7	266.5	273.4	280.7	288.6	295.4	302.3	308.6	313.5
160°	248.7	254.3	260.5	266.5	272.2	278.2	284.9	291.0	296.6	302.1	306.2
162.5°	251.2	255.6	261.3	266.5	270.9	275.8	281.6	286.5	291.2	295.6	299.3
165°	253.9	256.9	261.4	265.6	268.6	272.2	276.3	280.3	283.3	286.9	289.4
167.5°	255.7	258.0	261.4	264.3	266.2	268.5	271.3	274.3	276.6	279.5	281.0
170°	256.9	258.4	260.9	263.5	264.5	266.0	268.0	270.6	272.2	274.2	275.7
172.5°	257.7	258.8	260.6	262.7	262.9	263.6	265.2	267.3	268.5	269.7	270.8
175°	259.0	259.0	259.9	261.4	260.9	260.9	262.0	263.0	263.5	264.5	264.5
177.5°	259.0	259.0	259.3	260.1	259.3	259.3	259.8	260.1	260.6	260.6	260.9
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	485.4	485.2	483.9	483.8	483.9	485.2	485.4	485.8	486.3	488.0	486.0
5°	448.4	447.4	446.7	449.1	446.7	447.4	448.4	449.7	451.8	452.0	454.1
7.5°	420.5	419.7	417.9	417.2	417.9	419.7	420.5	421.3	423.4	425.3	428.4
10°	402.7	401.8	400.1	399.7	400.1	401.8	402.7	404.7	406.9	409.2	411.3
12.5°	385.4	383.8	383.4	383.9	383.4	383.8	385.4	388.3	393.7	393.7	394.1
15°	362.6	361.7	359.4	360.1	359.4	361.7	362.6	365.3	367.8	371.0	374.2
17.5°	340.0	339.0	336.2	338.7	336.2	339.0	340.0	341.5	344.7	349.2	354.0
20°	325.8	324.1	322.7	322.4	322.7	324.1	325.8	327.3	330.9	334.7	338.3
22.5°	312.4	310.9	310.7	309.3	310.7	310.9	312.4	314.7	318.3	320.4	323.8
25°	295.4	294.0	293.6	292.5	293.6	294.0	295.4	297.1	299.4	301.1	305.0
27.5°	282.5	281.8	281.0	281.3	281.0	281.8	282.5	282.7	283.7	286.0	288.2
30°	274.6	274.4	273.9	273.9	273.9	274.4	274.6	273.9	275.0	276.1	277.8
32.5°	268.0	268.0	268.2	268.2	268.2	268.0	268.0	267.0	267.4	267.8	268.6
35°	258.8	259.4	259.8	259.1	259.8	259.4	258.8	257.9	257.3	255.7	256.2
37.5°	250.4	251.0	251.6	252.4	251.6	251.0	250.4	248.6	247.1	245.8	244.3
40°	244.0	245.4	245.8	246.9	245.8	245.4	244.0	242.1	240.4	238.9	237.2
42.5°	237.9	239.5	240.6	240.9	240.6	239.5	237.9	235.9	233.4	231.7	229.3
45°	228.5	230.2	231.8	231.8	231.8	230.2	228.5	225.4	222.7	219.9	217.6
47.5°	218.9	221.3	222.8	223.2	222.8	221.3	218.9	215.6	211.8	208.4	205.1
50°	212.3	215.3	216.8	217.8	216.8	215.3	212.3	208.7	204.7	200.5	196.4
52.5°	205.9	208.8	210.8	211.3	210.8	208.8	205.9	201.4	196.6	192.1	188.5
55°	194.7	199.0	201.3	202.2	201.3	199.0	194.7	189.9	185.3	179.6	174.5
57.5°	184.3	188.2	190.9	191.5	190.9	188.2	184.3	178.6	172.6	166.6	161.1
60°	176.2	180.5	183.8	184.4	183.8	180.5	176.2	170.5	164.2	158.3	151.5
62.5°	167.9	172.4	175.4	177.0	175.4	172.4	167.9	161.9	155.1	148.5	141.7
65°	153.6	158.1	161.0	161.7	161.0	158.1	153.6	147.8	140.5	133.6	127.9
67.5°	138.0	142.5	144.4	145.6	144.4	142.5	138.0	132.4	125.4	118.2	111.6
70°	127.1	130.6	132.8	133.8	132.8	130.6	127.1	121.1	115.2	107.8	100.9
72.5°	114.6	118.3	120.7	121.0	120.7	118.3	114.6	109.5	103.3	96.4	90.2
75°	95.4	98.8	100.0	100.0	100.0	98.8	95.4	90.5	85.5	80.0	73.8
77.5°	75.5	77.2	78.8	79.2	78.8	77.2	75.5	72.1	67.9	62.3	57.8
80°	62.7	63.8	65.0	65.0	65.0	63.8	62.7	59.5	55.5	50.8	47.3
82.5°	49.5	50.4	51.6	51.5	51.6	50.4	49.5	47.0	43.7	40.6	37.3
85°	30.0	31.8	31.7	31.2	31.7	31.8	30.0	30.4	27.2	25.1	22.2
87.5°	15.6	15.9	16.3	16.7	16.3	15.9	15.6	15.1	13.6	12.6	11.8
90°	10.7	11.1	10.7	10.7	10.7	11.1	10.7	10.2	10.2	9.6	9.2
92.5°	43.6	40.9	39.1	39.1	39.1	40.9	43.6	49.7	59.8	75.2	99.9
95°	155.7	139.9	130.7	124.1	130.7	139.9	155.7	180.6	229.9	298.1	376.9
97.5°	388.3	357.6	342.3	331.7	342.3	357.6	388.3	424.7	477.9	527.6	556.9
100°	516.8	485.8	470.6	466.5	470.6	485.8	516.8	561.1	598.7	623.7	613.5
102.5°	625.4	603.0	586.9	583.6	586.9	603.0	625.4	652.6	668.3	661.1	610.6
105°	730.0	725.9	718.7	715.7	718.7	725.9	730.0	729.0	708.1	657.7	569.7
107.5°	746.7	758.3	763.4	764.7	763.4	758.3	746.7	721.6	676.3	605.3	511.7
110°	730.5	751.8	761.0	765.5	761.0	751.8	730.5	694.4	638.4	564.6	476.6



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	695.4	721.3	734.1	741.5	734.1	721.3	695.4	654.4	598.5	528.8	451.0
115°	636.3	666.9	683.1	687.2	683.1	666.9	636.3	596.2	547.3	487.9	425.3
117.5°	586.9	612.5	629.0	632.2	629.0	612.5	586.9	552.6	511.2	464.4	412.6
120°	560.1	582.5	595.7	601.3	595.7	582.5	560.1	531.0	494.9	454.2	407.0
122.5°	540.9	560.1	571.2	576.8	571.2	560.1	540.9	516.4	484.7	447.7	402.1
125°	520.8	535.7	545.3	548.3	545.3	535.7	520.8	500.5	472.5	437.5	393.7
127.5°	507.4	520.5	528.6	531.6	528.6	520.5	507.4	486.9	460.4	425.3	383.5
130°	498.0	510.7	518.9	521.9	518.9	510.7	498.0	477.2	450.1	415.6	375.4
132.5°	485.8	500.2	507.8	511.0	507.8	500.2	485.8	465.3	438.4	404.6	366.8
135°	464.9	479.2	487.3	490.4	487.3	479.2	464.9	444.6	419.1	388.2	355.1
137.5°	440.5	454.6	461.3	464.9	461.3	454.6	440.5	421.5	398.5	372.4	344.4
140°	424.3	435.4	442.6	446.7	442.6	435.4	424.3	406.4	385.0	362.2	338.2
142.5°	407.5	417.9	424.3	427.0	424.3	417.9	407.5	391.8	373.3	353.7	332.6
145°	384.1	392.7	397.8	400.3	397.8	392.7	384.1	371.3	357.1	341.8	324.5
147.5°	364.4	371.8	375.7	376.7	375.7	371.8	364.4	355.1	343.8	331.6	317.9
150°	353.0	359.6	362.7	363.2	362.7	359.6	353.0	344.9	335.7	325.6	313.9
152.5°	343.2	348.7	350.4	351.0	350.4	348.7	343.2	336.4	328.8	319.4	309.3
155°	329.7	333.7	335.2	335.2	335.2	333.7	329.7	324.5	318.4	310.8	302.6
157.5°	317.4	320.5	321.4	321.4	321.4	320.5	317.4	313.5	308.6	302.3	295.4
160°	309.2	312.4	312.8	312.8	312.8	312.4	309.2	306.2	302.1	296.6	291.0
162.5°	301.6	304.6	305.1	304.7	305.1	304.6	301.6	299.3	295.6	291.2	286.5
165°	291.5	293.5	293.0	292.5	293.0	293.5	291.5	289.4	286.9	283.3	280.3
167.5°	282.0	283.3	283.2	282.9	283.2	283.3	282.0	281.0	279.5	276.6	274.3
170°	276.7	277.2	276.7	276.7	276.7	277.2	276.7	275.7	274.2	272.2	270.6
172.5°	271.4	272.0	271.4	270.6	271.4	272.0	271.4	270.8	269.7	268.5	267.3
175°	264.5	265.6	264.5	263.5	264.5	265.6	264.5	264.5	264.5	263.5	263.0
177.5°	260.6	260.9	260.1	259.3	260.1	260.9	260.6	260.9	260.6	260.6	260.1
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	487.0	487.7	490.4	492.9	496.0	498.1	499.6	501.3	504.9	507.7	510.5
5°	456.3	457.4	462.8	466.6	473.1	478.8	483.3	488.1	493.8	501.7	508.8
7.5°	429.2	433.1	439.2	445.3	451.9	459.4	465.9	473.2	483.0	493.8	504.9
10°	413.8	418.3	424.6	431.8	438.1	446.7	454.8	463.4	474.7	487.7	500.8
12.5°	398.5	405.8	410.6	419.1	426.0	433.1	441.7	453.0	466.0	479.7	495.5
15°	379.2	383.3	392.5	397.2	406.9	417.9	426.3	437.7	450.3	468.5	486.2
17.5°	357.0	362.3	369.7	378.5	389.7	398.2	408.8	420.5	436.5	454.5	476.7
20°	342.5	347.0	356.1	365.7	377.6	386.6	397.8	409.2	425.7	444.9	468.1
22.5°	329.5	333.8	343.4	352.4	363.9	375.0	386.6	399.9	415.7	436.0	459.7
25°	309.4	315.0	323.5	332.8	343.8	356.4	369.1	380.9	397.8	419.1	444.4
27.5°	291.5	296.0	302.2	312.7	325.2	337.4	350.0	364.9	381.1	403.7	429.9
30°	280.1	284.3	290.4	300.1	311.7	324.8	337.9	352.2	369.1	391.5	418.3
32.5°	270.9	274.1	279.6	288.3	298.9	312.6	325.6	340.4	358.1	380.1	406.3
35°	257.4	260.2	262.3	270.5	280.1	292.7	305.8	321.6	338.8	359.6	385.8
37.5°	244.2	245.2	248.3	253.7	262.9	274.6	286.7	302.3	319.8	341.0	364.6
40°	236.1	236.6	238.4	243.5	251.6	262.5	274.4	289.7	306.4	326.5	349.9
42.5°	228.2	227.9	229.7	233.3	240.8	250.7	262.3	276.4	293.1	311.7	333.7
45°	215.7	215.7	215.3	218.2	224.4	234.1	243.8	257.3	271.2	289.4	307.9
47.5°	202.6	201.4	201.8	203.3	208.5	216.4	226.2	237.3	249.6	264.9	281.2
50°	194.1	192.4	191.8	193.5	198.1	205.1	214.5	224.1	235.8	249.2	263.1
52.5°	184.9	183.2	182.0	183.2	187.5	193.9	202.4	211.0	221.4	232.4	244.4
55°	170.5	168.6	168.0	168.4	171.6	176.6	183.8	191.6	199.5	208.5	217.0
57.5°	156.4	153.3	152.7	152.5	154.6	159.3	165.3	172.0	177.7	183.2	192.3
60°	147.1	143.3	142.0	141.8	143.5	147.3	152.8	159.5	163.5	167.4	175.1
62.5°	137.1	133.5	130.7	131.0	132.5	136.2	141.0	145.9	148.6	152.7	157.9
65°	121.8	117.2	115.0	114.4	115.2	118.2	122.0	125.1	128.1	129.8	134.8
67.5°	106.4	102.5	99.4	98.6	98.3	100.3	103.4	105.3	107.5	108.9	111.9
70°	95.6	92.2	88.5	87.1	86.9	88.6	91.6	91.8	94.8	95.4	98.5
72.5°	85.0	80.7	78.1	76.9	76.0	77.5	79.5	80.0	81.6	82.8	84.4
75°	68.4	65.2	62.7	60.8	60.2	61.0	61.0	62.1	63.1	63.8	65.6
77.5°	53.9	50.2	47.2	46.1	45.3	44.8	45.2	45.9	45.4	46.5	46.9
80°	43.7	39.9	37.5	37.2	35.8	34.9	34.6	35.2	34.4	34.9	36.1
82.5°	33.7	31.3	28.8	28.4	26.8	26.2	26.0	25.6	25.6	25.5	25.8
85°	20.1	18.5	16.9	15.9	15.2	14.2	14.2	13.7	13.3	12.8	13.1
87.5°	9.8	9.6	8.6	7.8	7.5	6.2	6.2	5.6	5.4	4.9	4.5
90°	8.6	9.2	8.1	7.1	7.1	4.1	4.1	3.6	3.0	1.5	0.5
92.5°	134.4	161.3	141.2	102.7	63.3	37.5	26.8	19.4	13.2	8.5	5.8
95°	426.2	414.6	312.8	191.3	107.8	63.6	42.2	30.1	23.4	18.3	16.8
97.5°	535.6	436.7	292.8	171.9	103.1	69.0	51.1	40.6	34.5	30.1	30.1
100°	539.2	408.9	265.6	161.8	104.2	74.3	58.0	48.3	42.2	38.7	38.7
102.5°	508.6	374.4	247.2	158.9	108.3	81.1	65.7	56.4	50.7	47.6	46.8
105°	453.3	333.7	231.5	160.2	118.0	93.6	78.8	69.7	63.6	61.1	59.5
107.5°	408.5	310.9	228.6	167.7	129.3	106.9	92.4	83.6	77.1	74.5	73.6
110°	386.1	303.2	229.4	173.4	137.9	115.5	101.7	92.6	86.5	83.9	82.9



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	373.4	299.5	231.8	179.6	146.0	124.4	110.7	101.6	95.9	92.9	91.8
115°	361.7	297.6	236.6	189.2	158.7	138.4	124.7	114.9	109.9	106.3	104.8
117.5°	356.4	297.0	241.5	199.1	171.0	151.7	137.4	128.4	122.8	119.7	118.2
120°	353.6	297.0	245.2	206.0	179.6	160.2	146.0	137.3	131.7	128.2	127.2
122.5°	350.3	296.7	248.9	212.5	187.7	168.4	154.5	145.1	139.9	136.3	135.3
125°	344.9	296.0	254.3	222.3	198.9	180.6	166.3	156.7	151.1	148.0	146.0
127.5°	337.7	294.9	258.7	230.8	209.3	191.5	177.2	167.1	160.8	157.1	155.4
130°	333.1	294.5	262.0	236.0	216.2	198.9	184.1	174.5	166.8	162.7	160.8
132.5°	329.1	294.1	264.8	241.3	221.9	204.6	190.6	180.2	173.0	167.6	166.0
135°	323.0	293.5	269.1	248.3	229.9	213.1	199.9	189.2	180.6	175.5	173.4
137.5°	317.7	293.4	271.6	253.2	236.0	220.3	207.8	196.6	188.4	182.8	180.9
140°	314.9	293.0	273.7	256.4	240.1	224.8	212.6	202.0	193.3	187.7	186.2
142.5°	312.5	293.0	275.3	258.8	243.8	228.9	217.1	206.8	198.6	193.4	191.9
145°	308.3	291.9	276.3	261.4	247.7	234.5	223.3	213.7	206.5	201.4	199.9
147.5°	304.5	290.2	276.7	263.8	251.8	239.4	229.3	221.2	213.9	209.5	208.9
150°	301.7	288.9	276.7	265.0	253.9	242.6	233.0	225.3	219.3	215.2	214.6
152.5°	298.4	286.9	275.9	265.8	255.5	245.5	236.7	229.8	224.1	220.1	220.0
155°	293.5	283.8	274.6	266.5	257.9	249.2	241.7	236.0	231.0	227.9	227.4
157.5°	288.6	280.7	273.4	266.5	259.7	252.3	246.3	241.4	237.5	234.6	234.6
160°	284.9	278.2	272.2	266.5	260.5	254.3	248.7	244.7	241.1	239.1	239.1
162.5°	281.6	275.8	270.9	266.5	261.3	255.6	251.2	247.5	244.3	242.7	243.2
165°	276.3	272.2	268.6	265.6	261.4	256.9	253.9	251.3	248.7	247.7	247.7
167.5°	271.3	268.5	266.2	264.3	261.4	258.0	255.7	254.2	252.3	251.8	252.3
170°	268.0	266.0	264.5	263.5	260.9	258.4	256.9	255.8	254.3	253.9	254.3
172.5°	265.2	263.6	262.9	262.7	260.6	258.8	257.7	257.1	255.9	255.8	256.4
175°	262.0	260.9	260.9	261.4	259.9	259.0	259.0	258.4	257.9	257.9	258.4
177.5°	259.8	259.3	259.3	260.1	259.3	259.0	259.0	259.0	258.5	259.0	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	512.8	514.5	516.7	520.4	521.7	523.4	525.8	525.7	526.3	528.9	534.2
5°	514.7	521.3	527.6	535.2	543.2	548.5	555.6	560.1	564.5	570.2	580.0
7.5°	515.5	525.8	537.4	550.8	562.7	576.3	587.0	597.1	606.2	618.1	629.7
10°	514.3	528.2	543.2	560.1	578.0	593.3	607.0	622.6	635.9	650.4	663.5
12.5°	512.1	528.9	548.9	567.8	588.8	611.3	628.4	644.2	661.8	678.6	698.8
15°	507.1	530.1	553.6	578.5	606.5	632.5	657.2	677.6	696.6	721.8	748.1
17.5°	500.8	525.6	555.2	585.3	614.7	644.3	674.8	705.6	729.6	760.8	781.4
20°	494.9	523.6	554.0	589.9	619.2	656.1	686.5	716.2	749.2	780.2	804.9
22.5°	486.6	518.0	550.3	585.9	624.6	661.6	696.6	728.9	761.9	795.6	825.5
25°	476.1	504.6	542.8	583.3	621.7	661.8	702.1	742.6	778.1	813.8	841.6
27.5°	458.3	494.2	529.8	571.6	614.2	659.6	702.8	745.1	782.3	811.6	828.8
30°	449.1	480.4	519.0	561.0	607.2	655.9	700.9	742.4	777.0	800.5	807.4
32.5°	435.6	467.8	505.6	549.1	598.1	648.2	694.9	734.1	763.0	775.3	767.0
35°	415.5	444.7	482.9	527.4	578.3	631.6	677.9	711.0	725.8	714.2	685.3
37.5°	391.5	420.4	458.7	502.5	555.1	609.4	651.1	675.0	670.1	641.2	598.2
40°	374.6	401.6	438.1	485.4	536.6	591.1	627.9	640.7	627.2	585.9	540.0
42.5°	355.9	382.2	418.8	464.5	518.8	569.0	601.0	602.1	579.4	529.9	484.0
45°	327.3	352.4	387.0	434.5	484.7	532.0	553.1	542.8	501.0	453.3	407.1
47.5°	299.2	320.9	355.1	400.1	447.8	487.6	498.1	479.5	435.0	388.6	345.8
50°	278.6	300.5	332.6	375.7	421.7	456.0	461.1	436.4	392.7	346.1	312.5
52.5°	258.8	280.6	311.5	351.3	393.4	424.5	424.6	396.1	352.6	311.0	279.8
55°	229.8	249.4	277.3	313.0	350.5	374.8	368.9	339.4	301.6	265.5	238.3
57.5°	201.9	219.0	244.6	274.4	307.5	327.5	317.7	289.3	255.6	224.9	204.3
60°	183.8	200.1	222.0	250.1	277.9	293.6	284.3	258.5	227.5	202.8	184.9
62.5°	166.2	179.9	201.1	225.4	251.3	262.8	254.6	229.2	202.3	180.0	165.4
65°	141.4	152.6	169.4	190.4	209.1	219.1	212.1	188.4	168.0	151.9	140.4
67.5°	118.2	126.9	139.7	156.5	172.5	177.8	171.5	155.0	137.7	124.8	116.6
70°	102.1	110.4	121.1	134.0	147.9	153.6	147.3	134.2	120.1	108.3	100.2
72.5°	88.1	94.5	103.6	114.6	125.5	131.2	126.9	114.3	102.4	93.5	86.8
75°	67.1	72.6	78.9	86.8	95.1	99.0	95.1	86.5	78.3	71.8	66.9
77.5°	48.8	51.7	56.6	62.5	67.8	70.6	67.3	61.5	56.4	52.0	49.6
80°	37.2	39.2	42.6	47.3	50.8	53.6	51.5	46.6	42.6	39.7	38.6
82.5°	27.0	28.4	30.7	34.1	36.5	37.9	37.0	33.4	31.8	29.2	28.2
85°	13.3	14.2	15.6	16.7	18.8	19.0	19.2	17.7	16.2	15.6	14.8
87.5°	4.9	5.4	6.0	6.6	7.2	8.0	7.8	8.0	7.6	7.3	6.7
90°	1.5	3.0	3.6	4.1	4.1	7.1	7.1	8.1	9.2	8.6	9.2
92.5°	8.5	13.2	19.4	26.8	37.5	63.3	102.7	141.2	161.3	134.4	99.9
95°	18.3	23.4	30.1	42.2	63.6	107.8	191.3	312.8	414.6	426.2	376.9
97.5°	30.1	34.5	40.6	51.1	69.0	103.1	171.9	292.8	436.7	535.6	556.9
100°	38.7	42.2	48.3	58.0	74.3	104.2	161.8	265.6	408.9	539.2	613.5
102.5°	47.6	50.7	56.4	65.7	81.1	108.3	158.9	247.2	374.4	508.6	610.6
105°	61.1	63.6	69.7	78.8	93.6	118.0	160.2	231.5	333.7	453.3	569.7
107.5°	74.5	77.1	83.6	92.4	106.9	129.3	167.7	228.6	310.9	408.5	511.7
110°	83.9	86.5	92.6	101.7	115.5	137.9	173.4	229.4	303.2	386.1	476.6





TEST NUMBER: P332501-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	92.9	95.9	101.6	110.7	124.4	146.0	179.6	231.8	299.5	373.4	451.0
115°	106.3	109.9	114.9	124.7	138.4	158.7	189.2	236.6	297.6	361.7	425.3
117.5°	119.7	122.8	128.4	137.4	151.7	171.0	199.1	241.5	297.0	356.4	412.6
120°	128.2	131.7	137.3	146.0	160.2	179.6	206.0	245.2	297.0	353.6	407.0
122.5°	136.3	139.9	145.1	154.5	168.4	187.7	212.5	248.9	296.7	350.3	402.1
125°	148.0	151.1	156.7	166.3	180.6	198.9	222.3	254.3	296.0	344.9	393.7
127.5°	157.1	160.8	167.1	177.2	191.5	209.3	230.8	258.7	294.9	337.7	383.5
130°	162.7	166.8	174.5	184.1	198.9	216.2	236.0	262.0	294.5	333.1	375.4
132.5°	167.6	173.0	180.2	190.6	204.6	221.9	241.3	264.8	294.1	329.1	366.8
135°	175.5	180.6	189.2	199.9	213.1	229.9	248.3	269.1	293.5	323.0	355.1
137.5°	182.8	188.4	196.6	207.8	220.3	236.0	253.2	271.6	293.4	317.7	344.4
140°	187.7	193.3	202.0	212.6	224.8	240.1	256.4	273.7	293.0	314.9	338.2
142.5°	193.4	198.6	206.8	217.1	228.9	243.8	258.8	275.3	293.0	312.5	332.6
145°	201.4	206.5	213.7	223.3	234.5	247.7	261.4	276.3	291.9	308.3	324.5
147.5°	209.5	213.9	221.2	229.3	239.4	251.8	263.8	276.7	290.2	304.5	317.9
150°	215.2	219.3	225.3	233.0	242.6	253.9	265.0	276.7	288.9	301.7	313.9
152.5°	220.1	224.1	229.8	236.7	245.5	255.5	265.8	275.9	286.9	298.4	309.3
155°	227.9	231.0	236.0	241.7	249.2	257.9	266.5	274.6	283.8	293.5	302.6
157.5°	234.6	237.5	241.4	246.3	252.3	259.7	266.5	273.4	280.7	288.6	295.4
160°	239.1	241.1	244.7	248.7	254.3	260.5	266.5	272.2	278.2	284.9	291.0
162.5°	242.7	244.3	247.5	251.2	255.6	261.3	266.5	270.9	275.8	281.6	286.5
165°	247.7	248.7	251.3	253.9	256.9	261.4	265.6	268.6	272.2	276.3	280.3
167.5°	251.8	252.3	254.2	255.7	258.0	261.4	264.3	266.2	268.5	271.3	274.3
170°	253.9	254.3	255.8	256.9	258.4	260.9	263.5	264.5	266.0	268.0	270.6
172.5°	255.8	255.9	257.1	257.7	258.8	260.6	262.7	262.9	263.6	265.2	267.3
175°	257.9	257.9	258.4	259.0	259.0	259.9	261.4	260.9	260.9	262.0	263.0
177.5°	259.0	258.5	259.0	259.0	259.0	259.3	260.1	259.3	259.3	259.8	260.1
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	537.0	537.3	538.9	540.0	540.4	542.1	542.2
5°	584.2	587.7	594.7	595.3	596.4	601.9	597.6
7.5°	639.4	648.5	654.6	660.0	661.9	664.3	663.9
10°	674.9	688.4	695.2	706.0	706.3	709.1	707.4
12.5°	710.5	726.2	738.5	740.6	749.6	751.0	753.3
15°	761.0	777.7	794.8	800.9	813.3	816.3	820.9
17.5°	808.4	825.5	837.5	853.3	858.4	865.2	860.6
20°	834.5	853.0	868.3	880.7	885.9	889.7	889.3
22.5°	850.2	868.9	881.2	890.6	895.5	897.2	897.1
25°	860.0	870.8	874.6	878.2	872.6	870.8	871.6
27.5°	832.6	829.8	819.9	806.9	793.4	782.7	776.9
30°	795.0	778.6	763.6	737.4	723.9	715.9	708.6
32.5°	741.6	715.5	686.7	662.7	647.4	635.5	633.7
35°	650.2	611.0	575.7	546.4	531.2	518.4	515.3
37.5°	552.8	512.0	480.3	454.4	438.1	429.0	420.5
40°	488.1	453.1	421.9	399.9	387.4	380.9	375.7
42.5°	438.4	406.4	375.2	358.6	347.3	343.3	340.2
45°	369.5	339.7	318.3	305.6	299.1	292.3	289.1
47.5°	314.4	290.3	276.1	265.3	258.2	254.2	252.3
50°	283.2	263.4	250.7	242.5	236.1	233.0	231.3
52.5°	255.6	239.2	228.6	222.0	217.8	215.4	214.7
55°	220.1	207.7	200.9	195.2	192.1	189.9	189.1
57.5°	191.4	181.7	176.3	171.6	170.3	168.6	168.0
60°	172.5	165.1	160.4	157.2	156.1	154.1	154.4
62.5°	155.7	149.6	145.7	143.9	142.5	140.7	141.3
65°	131.7	127.2	125.1	123.5	121.8	120.7	121.5
67.5°	110.5	107.5	104.6	103.6	102.8	102.6	101.7
70°	96.7	94.2	91.6	91.0	91.0	90.2	89.9
72.5°	83.3	81.5	79.8	79.3	78.6	79.0	78.1
75°	64.4	62.9	62.2	61.6	61.4	61.4	60.8
77.5°	47.5	46.5	45.5	45.5	44.7	44.4	44.3
80°	36.1	35.7	34.9	34.9	34.4	34.6	34.2
82.5°	27.1	26.6	26.4	26.0	25.4	25.5	25.1
85°	14.5	13.9	13.7	13.1	12.7	13.1	12.7
87.5°	7.0	7.0	6.8	6.5	6.4	6.3	5.9
90°	9.6	10.2	10.2	10.7	11.1	10.7	10.7
92.5°	75.2	59.8	49.7	43.6	40.9	39.1	39.1
95°	298.1	229.9	180.6	155.7	139.9	130.7	124.1
97.5°	527.6	477.9	424.7	388.3	357.6	342.3	331.7
100°	623.7	598.7	561.1	516.8	485.8	470.6	466.5
102.5°	661.1	668.3	652.6	625.4	603.0	586.9	583.6
105°	657.7	708.1	729.0	730.0	725.9	718.7	715.7
107.5°	605.3	676.3	721.6	746.7	758.3	763.4	764.7
110°	564.6	638.4	694.4	730.5	751.8	761.0	765.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.8	598.5	654.4	695.4	721.3	734.1	741.5
115°	487.9	547.3	596.2	636.3	666.9	683.1	687.2
117.5°	464.4	511.2	552.6	586.9	612.5	629.0	632.2
120°	454.2	494.9	531.0	560.1	582.5	595.7	601.3
122.5°	447.7	484.7	516.4	540.9	560.1	571.2	576.8
125°	437.5	472.5	500.5	520.8	535.7	545.3	548.3
127.5°	425.3	460.4	486.9	507.4	520.5	528.6	531.6
130°	415.6	450.1	477.2	498.0	510.7	518.9	521.9
132.5°	404.6	438.4	465.3	485.8	500.2	507.8	511.0
135°	388.2	419.1	444.6	464.9	479.2	487.3	490.4
137.5°	372.4	398.5	421.5	440.5	454.6	461.3	464.9
140°	362.2	385.0	406.4	424.3	435.4	442.6	446.7
142.5°	353.7	373.3	391.8	407.5	417.9	424.3	427.0
145°	341.8	357.1	371.3	384.1	392.7	397.8	400.3
147.5°	331.6	343.8	355.1	364.4	371.8	375.7	376.7
150°	325.6	335.7	344.9	353.0	359.6	362.7	363.2
152.5°	319.4	328.8	336.4	343.2	348.7	350.4	351.0
155°	310.8	318.4	324.5	329.7	333.7	335.2	335.2
157.5°	302.3	308.6	313.5	317.4	320.5	321.4	321.4
160°	296.6	302.1	306.2	309.2	312.4	312.8	312.8
162.5°	291.2	295.6	299.3	301.6	304.6	305.1	304.7
165°	283.3	286.9	289.4	291.5	293.5	293.0	292.5
167.5°	276.6	279.5	281.0	282.0	283.3	283.2	282.9
170°	272.2	274.2	275.7	276.7	277.2	276.7	276.7
172.5°	268.5	269.7	270.8	271.4	272.0	271.4	270.6
175°	263.5	264.5	264.5	264.5	265.6	264.5	263.5
177.5°	260.6	260.6	260.9	260.6	260.9	260.1	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)